DEPART	STATE OF ALASKA MENT OF TRANSPORTATION	POLICY AND PROCEDURE NUMBER	PAGE			
	AND PUBLIC FACILITIES	11.04.031	1 of 21			
Policy a	nd Procedure	July 1, 2002				
SUBJECT		SUPERSEDES	DATED			
Preventive Maintenan	ce	11.04.031	6/16/2000			
State Equipment Fleet	CHAPTER Equipment Use, Care and Maintenance	APPROVEDBY	C. Onfins			

### **PURPOSE**

#### Introduction:

- A. Regularly scheduled service and inspection of vehicles and equipment is the cornerstone of fleet safety, maintenance and operational integrity, and controlling maintenance costs. The main components of a preventive maintenance service (PM) program are:
  - 1. Inspection and repair at regular pre-determined intervals.
  - 2. Lubrication and service at regular pre-determined intervals.
- B. Adherence to these components of preventive maintenance will help extend machine service life, improve availability and reliability, reduce major component repair and replacement expenses, and enhance disposal value.
- C. These procedures outline the <u>minimum</u> program for Preventive Maintenance and Service of state owned equipment.

### **Responsibility/Performance:**

SEF Managers:	Ensure compliance with this procedure.
Shop Supervisors and Mechanics:	Ensure the minimum PM standards are adhered to.
User Agency:	Ensure vehicles are available when PM inspection is due.

### **Definitions:**

#### PM Service:

The combined operation of lubrication and service, inspection, and performance of adjustments and minor repairs on a regularly scheduled basis. This operation is a PM Inspection.

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### **Annual Dry Asset Inspection:**

An annual inspection of Dry assets to insure that the PM services are being performed and documented in accordance with this P&P.

#### Reference:

Applicable Manufacturer's Service and Lubrication Guides

### **PROCEDURE**

- A. PM intervals and procedures shall be based on original equipment manufacturer's (OEM) recommendations and standard industry practice with appropriate adjustments for Alaska operating conditions.
- B. Pre-determined service and inspections intervals for all classes of vehicles and equipment shall be established.
- C. Each PM inspection will consist of a simultaneous operation of lubrication and servicing, inspection, adjustment, and minor repair.
- D. Major repair needs discovered during PM will be documented and subsequently scheduled into the repair shop for completion. Discovery of repair or service needs that affect safe or economical operation of a vehicle will require placing the vehicle out-of-service until the problem is corrected.
- E. Successive PM Inspection levels shall consist of:
  - 1. PM A Inspections.
  - 2. PM B Inspections (not currently used).
  - 3. PM C Inspections.
- F. Each successive PM inspection level will be more comprehensive than the last leading up to the "C" or most thorough level.
- G. PM Inspections will be based on intervals of hours, miles, fuel used, or time and may be adjusted to suit the specific needs of the various equipment classes and districts.

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- H The PM intervals listed in Attachment A, Preventive Maintenance Schedule, represent the maximum service intervals of the affected vehicle class. Authority to change the maximum service intervals shall rest with the Statewide Fleet Manager.
  - Each PM inspection shall be conducted according to the appropriate PM inspection check sheet and recorded on a shop work order that will include the parts cost, commodities used, and labor hours required to do the work.
- J. Only qualified maintenance personnel shall perform PM inspections.
- K. All new equipment shall be given a thorough pre-delivery inspection before being placed in service. Such inspection shall be documented on a pre-delivery report.
- L. Each major group of equipment shall have a PM check sheet specifically designed to accomplish proper servicing and inspection routines. Examples of check sheets are shown in Attachment B. The SEF Regional Equipment Managers shall approve all check sheets within their respective regions.
- M. The PM mechanic will check all appropriate items on the inspection sheet as they are completed. The PM mechanic is to adjust, tighten, lubricate, or add fluid required for each of the operations listed.
- N. PM scheduling will be the responsibility of the SEF District Manager, or a designee. A computerized scheduling list will be available from the Equipment Management System (EMS).
- O. The PM mechanic, Shop Supervisor, or other person designated by the SEF District Equipment Manager shall, where practical, road test or field test the vehicle after PM is complete.
- P. Completed PM work orders shall be reviewed by the Shop Supervisor and/or Superintendent. The SEF District Equipment Manager should review discrepancies or unusual reports. After completion and review, PM work orders are to become a part of the equipment file.
- Q. Vehicles shall be emission tested (IM) where required (i.e. Anchorage and Fairbanks) in accordance with local municipal ordinances and state statutes governing IM testing. Non-compliant vehicles will be deadlined or repaired.

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P. Dry assets shall be inspected annually by SEF to insure that they had their PMs performed and documented in accordance with this P&P. Dry assets that are non-compliant shall be deadlined until their deficiencies have been corrected and they have been re-inspected and found to be compliant. Habitual failure to properly maintain Dry assets will result in the conversion of those assets to Wet status.

### IMPLEMENTATION RESPONSIBILITY

Headquarters and Regional Directors

### DISTRIBUTION

All Holders of the Department of Transportation & Public Facilities Policy and Procedure Manual

### ATTACHMENT A PREVENTIVE MAINTENANCE AND SERVICE SCHEDULE

Equipment Group Light Duty Vehicles (Including DPS Judicial Services & Administration)	Inspection Type A C	Maximum Interval 6 months/5,000 miles 36 months/30,000 miles
DPS Vehicles (All classes except Judicial Services & Administration)	A C	6 months/3,000 miles 36 months/30,000 miles
Light Duty (Seasonal Use)	A C	12 months/5,000 miles 36 months/30,000 miles
Heavy Duty Trucks	A C	250 hours/5,000 miles Annual
Heavy Duty Trucks (Seasonal Use)	A C	12 months/250 hours/5,000 miles 24 months/1,000 hours/20,000 miles
Heavy Equipment	A C	250 hours Annual
Heavy Equipment (Seasonal Use)	A C	12 months/250 hours 24 months/1,000 hours
Motor Graders	A C	250 hours Annual
Motor Graders (Seasonal Use)	A C	12 months/250 hours 24 months/1,000 hours
Snow Blowers, Sweepers, Brooms, Traffic Markers, Auger Drills, Brush Cutter/Shredder, Boilers	A C	250 hours Annual
Attachments	A C	With parent With parent
Sanders	A C	With host when mounted Annual
Trailers	С	Annual
Miscellaneous Support Equipment	A C	250 hours Annual
Dry Vehicle		Annual or Bi-Annual

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 1 of 15: Light Duty Vehicles - Front

### Preventive Maintenance Inspection

LIGHT VEHICLES

(Sedans, vans, pickups)

E	quip. No W/O # _	*******				
Ve	ehicle Description					
Hours Miles						
	- INSPECTIONS -					
PI	M C Annual		·			
PI	M B None					
PI	M A 6 months/6,000 miles	_	lack	$\forall$		
Co	odes: ✓ = Okay A = Adjust					
R (R	= Replacement/Repair Items to go on Work Order)	Α	В	С		
	"Walk-around" check for physical damage					
B 0	Check paint & general appearance					
D Y	Check decals, license plate, equipment number					
ľ	Check mudflaps, running boards					
	Check instruments, warning lights & horn					
C	Check wipers & washer					
В	Check heater, defroster					
8	Check mirrors & all glass					
	Check door & window operation					
N	Check cab interior; seats, seatbelts, mats					
S	Check safety equipment					
R	Check lights, turn signals, 4-way flashers	-				
М	Check emergency lighting					
N						
S						
	Check battery including hold downs & cables					
Е	Check wiring, connections, grounds					
L	Check starter for proper operation					
c	Check starter, alternator mounting					
R	Check fuse box including spares					
1	Clean & lube posts & cables					
C	Load tests battery					
L						
			1			
		ļ		ļ		

Date	Insp. Type
Location (Shop I/D)	
Mechanic	

		Α	В	С
	Ohanna anxina ail 9 filtari Chagle Iaval			
	Change engine oil & filter: Check level  Air cleaner: clean & inspect; change as required			
L	Lube all fittings			
U B	Check all fluid levels-top off as needed			
E	Check antifreeze condition & freeze point			
&	Lube CVC joint			
s	Apply lubricant-hood, trunk, door latches			-
E	Check & inspect wheel bearings; repack as req'd			
R	Report all leaks			٠,
1	Lube water pump & fan hub			
C	Lube speedometer cable			
	Drain & refill transfer case			
	Drain & refill transmission & differential			
	Replace fuel filter			
	Service & lube all accessory equipment			
	Check engine, trans., differential mounting			
С	Check all spring shackles & mounting			
H	Check shocks/struts/suspension			
S	Check frame & cross members	1		
S	Check cab, fender & bumper bolts			
S	Check exhaust system			
	Check accessories; winch, hoist, etc.			
		1		
		-		
		<del>                                     </del>		
		<del> </del>		

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 2 of 15: Light Duty Vehicles - Back

		Α	В	С
	Check engine operation			
	Check choke & throttle linkage			
	Check radiator - clean as required			
E N	Check water pump & fan			
G	Check all belts & hoses			
N	Check carburetor, fuel pump & lines			
E	Check cold starting aids			
	Pressure test radiator			
	Compression test			
	Tune up: scope test including:			
	Adjust timing, voltage & pattern mixture, idle speed, check ignition points, coil, plugs & wires, emission controls. Change as required.			
	Steam clean engine			
	•			
D R	Check drivelines, joints, center bearings			
ı	Check clutch; adjust as required			
V E	Check transmission for operation			
T	Check transfer case & 4x4 operation			
Α				
l N				
	Check brake pedal operation & reserve			
	Check condition of brakes			
В	Adjust brakes			
R	Check parking/emergency brake			
K	Check master cylinder; levels & leaks			
S	Check shoes, calipers, rotors & wheel cylinders. Replace as required.			
	Check drums & front wheel bearings			
S	Check steering gear assembly, including tie rods & ends, drag link, pitman arm, king pins			
E	Check wheel alignment			
R			ļ	
I N G			ļ	

		Α	В	С
	Check & record air pressure			
W H	☐ ☐ Front ☐ ☐			
E				
E L	Inflate to recommended levels			
S	Check for valve caps			
&	Check wear & condition			
Т	Rotate as required			
	Check toe in - balance			
R	Check wheel lug nuts/check run out			
S	Inspect wheels for cracks			
	Check for hubcaps			
_	Road test after all PM inspections & check:			
R	Clutch action			
A	Transmission - shifting correctly			
D	Engine - smooth acceleration, knocks			
Т	Unusual noises, overheating, oil leaks &			
E	pressure . Brakes - smooth even stops			
S	Roadibility - check steering, excessive play,			
•	wandering, pulling to sides, of shimmey			
	Comments:			
	**** PM Completed ****			
	-			
	Road test performed: Vehicle is road ready	<b>/</b> .		
		•		
	Signed:			

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 3 of 15: Heavy Duty Trucks - Front

### **Preventive Maintenance Inspection**

HEAVY DUTY TRUCKS

(Class 200 & up, medium & heavy duty trucks)

Ve	ehicle No W/O # _				
Ve	Vehicle Description				
Hours Miles					
	- INSPECTIONS -				
	M C Annual				
	M B None				
	M A 4 months/250 hrs./4,000 miles	<b>V</b>	_		
R	odes:   ✓ = Okay  = Replacement/Repair  Items to go on Work Order)  "Walk-around" check for physical damage	Α	В	С	
В	Check paint & general appearance	1			
Ď	Check decals, license plate, equipment number				
Υ	Check mudflaps, winterfront				
	Check instruments, gauges, warning lights				
C	Check hour meter for operation				
В	Check horns - air, electric, backup				
&	Check heater, defroster				
۵	Check mirrors, all glass				
I N	Check door and window operation				
s	Check safety equipment - fire extinguisher				
T R	Check seats, seatbelts, floor mats				
U M	Check windshield wipers & washer - change blades, add fluid as required				
E	Check lights, turn signals, 4 ways		-		
Т	Check emergency lighting				
S	Check low air pressure warning system				
_	Check battery including hold downs & cables				
E	Check wiring, connections, grounds				
Ē	Check master switch if equipped				
T	Check starter for proper operation				
R I C A	Check starter/alternator mounting				
	Check fuse box including spares				
	Clean & lube posts & cables				
L	Check Starter current drawdown				

Date	_ Insp. Type
Location (Shop I/D)	
Mechanic	

		Α	В	С
	Change engine oil & filter: Check level			
	Change fuel filter(s)			
	Check air restriction reading			
L	Air cleaner: clean & inspect; change as required			
U	Check antifreeze condition & freeze point			
B	Check coolant filter, change annually or as req'd.			
&	Change hydraulic oil filter(s)			
α	Check wheel seal lube levels			
S	Drain air tank of water and oil			
R	Check all fluid levels - top off as needed			
V	Lube all fittings			
C	Service & lube all accessory equipment			
E	Clean breathers - eng., diff., trans.			
	Lube throttle linkage	1		
	Check magnetic plugs			
	Take engine oil sample as required			
	Lube speedo/tach cables			
	Drain & refill trans & differential			
	Apply lupriplate - hood & door latches			
	Check frame & cross members			_
	Check all U-bolts & trunion bolts			
	Check engine, trans., differential mounting	,		
С	Check all spring shackles & mounting			
H	Check radius & torque rods	1		
S	Inspect 5 <sup>th</sup> wheel & mounting			
S	Check dump box condition & mounting		-	
s	Check plow hitch mounting	<b>†</b>		
	Check fuel & hydraulic tank mounting			
	Check exhaust system -			

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 4 of 15: Heavy Duty Trucks - Back

		Α	В	С
	Start engine; Check throttle & accel. controls			
	Check RPM: Idle max			
	Check governor cut-out			
	Check Jake brake operation			
E	Check oil pressure (hot) idle speed			
G	Check for leaks, blowby			
I N	Clean radiator frontal area			
Е	Check radiator cap, relief valve, overflow			
	Check shuuter operation if equipped			
	Check water pump for leaks & bearing play			
	Check air compressor condition & mounting			
	Check all lines & hoses & belts			
	Check air dryer system			
	Check emergency shutdown			
	Steam clean engine			
	Check engine fuel pressure			
	Engine tune up: adjust injectors, valves, timing.			
	Scope test Check turbocharger			
	Pressure test cooling system			
D	Check clutch for operation & freeplay			
R	Check clutch brake			
V E	Check transmission for proper operation			
Т	Check 2-speed axle controls			
R A	Check driveline, U-joints, center bearing			
N	Check axle flange nuts			
	Check all hydraulic controls including PTO			
	Check & adjust all brakes including parking			
	Check all airlines/gladhands for condition			
В	Check operation of trailer protection valve			
R	Check air buildup & governor for leaks	1		
K	Check S-cams, slack adjusters			
Е	Check condition of brake lining			
S	Remove wheels: inspect drums for cracks & wear; reline brakes as needed; check all bearings, replace as needed			
	Check brake cans & diaphragms. Replace as needed			
		1		

		Α	В	С
_	Check front springs & suspension			-
S T E	Check steering assy including tie rod ends & drag link			
R	Check pitman arm & nut; kingpins			
l N	Remove front wheels & inspect			
G	Jack up front end; check kingpins			
	Check alignment as necessary			<u> </u>
w	Check & record air pressure			:
HEELS	↑			
&	Inflate to recommended levels			
_	Check for wear/condition - rotate as required			
L	Check for valve caps			
R	Check wheel lug nuts			
S	Inspect wheels for cracks			
	Check toe in - balance - wheel run-out			
ROAD TEST	Road test after all PM inspections & check:  Clutch/transmission .  Brakes  Driveline (vibration)  Engine controls/performance  Steering handling			
	Check & inspect attachments using the PM checksheet for attachments.  Attach checksheet used:  Yes  No			
	Comments:			
	-			
	**** PM Completed ****			
	Road test performed: Vehicle is road ready.			
Signed:				

### ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 5 of 15: Heavy Equipment - General - Front

#### **Preventive Maintenance Inspection**

Date \_\_\_\_\_ Insp. Type \_\_\_\_\_

Location (Shop I/D) \_\_\_\_

Mechanic \_\_\_\_

**HEAVY EQUIPMENT - GENERAL** 

(All heavy equipment classes except Graders & Snowblowers)

E						
E	Equip. Description					
H	ours					
	-					
	- INSPECTIONS -					
	M C Annual ————————————————————————————————————					
1	M B 500 Hours					
Щ.	M A 250 Hours/4 Months	▼	<u> </u>	<b>V</b>		
	odes:		_			
(R	Items to go on Work Order)	A	В	C		
В	"Walk-around" check for physical damage					
0	Check paint & general appearance					
D	Check decals, license plate, equipment number					
	Steam clean machine					
C	Check all gauges & instruments					
A B	Check hour meter for operation					
	Check warning lights, horn, back up alarm					
&	Check doors, windows, EROPS					
1	Check windshield wiper & washer					
N S	Check lights, turn signals & hazard lights					
Т	Check seat & seatbelt					
R	Check cab interior and safety items					
Т	Check heater & defroster					
M	Check all controls & switches for operation					
N T	Check all mirrors & glass					
s						
	Check battery including hold downs & cables					
E	Check wiring, connections, grounds					
Ļ	Check starter for proper operation					
E	Check starter/alternator mounting					
TR	Check fuse box including spares					
	Check master switch if equipped					
С	Check starter current drawdown					
A	Check amp draw on glow plugs					
_	Clean & lube posts & cables					
	Check neutral start switch					
				1		

		А	В	С
	Change engine oil & filter: Check level			:
	Change fuel filter(s)			
	Check air restriction reading			
L	Air cleaner: clean & inspect; change as required			
Ū	Check pre-cleaner	-		
B	Check antifreeze condition & freeze point			
	Check coolant filter, change annually or as req'd.			
&	Change hydraulic oil & filter(s)			
S	Check planetary & differential oil levels			
R	Check all fluid levels - top off as needed			
V   I	Lube all fittings			
C	Service & lube all accessory equipment			
	Clean breathers - Eng., diff., TC			
	Lube throttle linkage ·			
	Take oil samples as required			
	Drain air tank of water & oil			
	Check magnetic plugs			
	Change oil in all gear boxes, transmission, planetaries & hydraulic system Change transmission filter (or as required)			
	Clean transmission pump screen			
	Drain sediment from fuel tank			
	Check all mounting brackets/plates			
С	Check all pivot joints/hinge pins for wear			
H	Check all linkage for operation & wear			
S	Check all U-bolts & trunion bolts		·	
S	Check EROPS mounting			-
s	Check frame locking pin			
&	Check frame for cracks, damage			
T R A	Check pin & bushing wear			
	Check rollers, idlers, sprockets			
	Check track pads & rock guards			
C	Check track, adjust as required			
S	Check track frames for straight			

# ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 6 of 15: Heavy Equipment - General - Back

		Α	В	С
	Start engine; Check throttle & accel. controls			
	Check oil pressure reading			
	Check cold weather starting aids		-	
	Check shutdown system	-		
_	Check lines, hoses, connections for leaks	ļ. <del></del>		
E N	Check belts & pulleys			
G	Check radiator for leaks & obstruction			
N	Check cables & linkage for cond. & operation			
E	Check exhaust piping & muffler incl. rain cap			
	Check water pump for leaks & bearing play	<u> </u>		
	Check air intake system & turbo			
	Check low & high idle			
	Pressure check cooling system			
	Tune engine: set valves & injectors			_
	Check fuel pressure			-
	Check turbo for operation & bearing wear			
	Torque turbo/engine mounting bolts			
	Check clutch & steering brake adjustment			
	Check trans/torque convertor/PTO			
D R	Check all linkages for operation and condition			
ı	Check drop boxes, transfer cases			
E	Check planetaries/axles/differential lockout			
T R	Check FWD/rev/speed range clutch press			
A	Check all drive couplings/mid bearings			
N	Check trans/TC for internal leakage			
	Check trans cooler pressure - in/out			
	Check convertor pressure - in/out			
	Check trans lube pressure			
	Check unloading valve pressure		·	
	Check main & low pressure relief valve			
	Torque trans/TC mounting bolts			
	Check all hydraulic controls for proper operation			
Н	Check all hoses, fittings, connections			
Υ	Check all hydraulic cylinders for wear/leaks			
D R	Check all pumps for operation/leaks			
A U	Check boom kickout & bucket leveler			
L	Check hydraulic tank mounting			
l C	Replace hydraulic tank breather			

		Α	В	С		
	Check brakes for proper operation	'				
В	Adjust parking/emergency brake					
R	Bleed air from system					
K	Check for leaks - whl. cyl., caliper, master cyl.					
E S	Check lining/drums/discs		-			
	Check all hoses/connections for wear, leaks					
	Check accumulator precharge pressure					
S	Check all steering components					
T	Check secondary steering system					
E	Check ball joints, pitman arm, tie rods					
R	Check pump for leaks, operation					
N	Check steering relief pressure					
G						
T	Check all tires for wear & condition	ļ				
R E	Check tire pressure in all tiers					
S	Check wheels, lug nuts & studs					
M _ 00 C	Service and inspect any special equipment or comaccording to manufacturers recommendations  Check and inspect attachments using the PM check for attachments.  Attachments checksheet used: Yes					
0 P	Perform operational check/road test after					
E R	all PM inspections: Check engine controls/performance					
A T	Check transmission/drivetrain					
10	Check brakes including parking/emergency					
N	Check operation of all machine functions					
ОН	(raise, lower, swing, etc.)					
EOK	Check all accessory controls & equip. for proper					
	operation Comments:	1		l		
			-			
	**** PM Completed ****					
	Operational test performed: Unit is ready to wor	k.				
1	Signed					

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 7 of 15: Motor Graders - Front

### **Preventive Maintenance Inspection**

### **Motor Graders**

Equip. No W/O #							
Ed	Equip. Description						
Н	Hours						
Pi	- INSPECTIONS -						
	M B 500 Hours						
	M A 250 Hours/4 Months ——————	_					
Co	odes: ✓ = Okay A = Adjust		_				
R (R	= Replacement/Repair Items to go on Work Order) "Walk-around" check for physical damage	Α	В	С			
ВО	Check paint & general appearance						
Ď	Check decals, license plate, equipment number	-					
Y	Steam clean machine						
С	Check all gauges & instruments						
A B	Check hour meter for operation	<del>                                     </del>					
	Check warning lights, horn, back up alarm						
&	Check doors, windows, EROPS						
1	Check windshield wiper & washer	1					
N S	Check lights, turn & hazard lights						
Т	Check seat & seatbelt						
R	Check cab interior/safety items		† · · · ·				
T	Check heater & defroster	<u> </u>					
M	Check all controls & switches for operation						
N	Check all mirrors & glass						
s							
	Check battery including hold downs & cables						
E	Check wiring, connections, grounds						
L	Check starter for proper operation						
E	Check starter/alternator mounting						
Т	Check fuse box including spares						
R	Check master switch if equipped						
C	Check neutral start switch						
A L	Check starter current drawdown						
	Check amp draw on glow plugs						
	Clean & lube posts & cables						

Date	Insp. Type
Location (Shop I/D)	
Mechanic	

		А	В	С
	Change engine oil & filter: Check level			
Ì	Change fuel filter(s)			
ŀ	Check air restriction reading			
L	Air cleaner: clean & inspect; change as req'd.			
Ü	Check pre-cleaner			
B E	Check antifreeze condition & freeze point			
	Check coolant filter, change annually or as req'd.			
&	Change hydraulic oil			
S	Check hydraulic oil filter			
R	Check tandem/final/transmission fluid level			
V I	Check all fluid levels - top off as needed			
CE	Lube all fittings			
Ì	Service & lube all accessory equipment			
	Clean breathers - eng., diff., trans., TC			
	Lube throttle linkage			
	Take oil samples as required			
	Drain air tank of water & oil			
	Check magnetic plugs			
	Change oil in all gear boxes, transmission			
	Change single reduction SR30-SR40 lube			
	Change tandem fluid			
	Change transmission filter (or as required) & clean transmission pump screen			
	Drain sediment from fuel tank			
	Check all mounting brackets/plates			
	Check all pivot joints/hinge pins for wear			
	Check all linkage for operation & wear			
СН	Check all U-bolts & trunion bolts			
Α	Torque EROPS mounting bolts			
s s	Check articulation anchor pins			
1	Torque hydraulic pump mounts			
s	Torque final drive to frame			
	Torque final drive to tandems			-
	Check transmission mounting			
	Check hydraulic tank mounting			

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 8 of 15: Motor Graders - Back

		Α	В	С
	Start engine; Check throttle & accel. controls			
	Check oil pressure reading			
	Check cold weather starting aids			
	Check shutdown system			
_	Check lines, hoses, connections for leaks			
E N	Check belts & pulleys			
G	Check radiator for leaks & obstruction			
N	Check cables & linkage for cond. & operation			
E	Check exhaust piping & muffler incl. rain cap			
	Check water pump for leaks & bearing play			
	Check air intake system & turbo			
	Check low & high idle			
	Pressure check cooling system			
	Tune engine: set valves & injectors			
	Check fuel pressure			
	Check turbo for operation & bearing wear			
	Torque turbo/engine mounting bolts			
	Check clutch operation and adjustment			
	Check trans/torque convertor			
D	Check all linkages for operation and condition			
R	Check drop boxes, transfer cases			
V E	Check all driveshafts/couplings			
Т	Check trans/TC for internal leakage			
R	Check tandem case for damage/leaks			
1	Check trans cooler pressure - in/out			
N	Check convertor pressure - in/out			
	Torque rear axle nut			
	Adjust trans lube/lockup pressure			
Η×ι	Check hydraulic pump(s) for operation/leaks  Check all hydraulic controls for proper operation			-
DR	Check primary hydraulic relief setting			
A U	Check all hoses, fittings, connections	+		
L	Office an floses, fittings, confidential			
С	Check all hydraulic cylinders for wear/leaks			
0_	Adjust circle timing			
R	Adjust stirrup bearings			
C	Check ball cap adjustment			
E  /	Adjust blade lift cylinder trunions			
DR	Adjust drawbar ball studs			
Α	Torque tilt quadrant bolts			
B	Check moldboard sliding surface			
AR	Check cutting edges			

		Α	В	С	
	Check brakes for proper operation				
B	Adjust parking/emergency brake				
A	Bleed air from system				
K	Check for leaks - whl. cyl., caliper, master cyl.				
s	Adjust drum brake linings				
	Check all hoses/connections for wear, leaks				
	Check all steering components				
s	Check secondary steering system				
T E	Torque radius arm/drag link nut				
E	Check ball joints, pitman arm, tie rods			1	
l R	Check pump for leaks, operation				
N	Check steering relief pressure				
G	Adjust axle pivot bearing preload				
	Adjust pivot block preload				
Т	Check all tires for wear & condition				
- ec 1	Check tire pressure in all tires	-			
E S	Check wheels, lug nuts & studs		-		
\ W	Adjust wheel toe in			<del>                                     </del>	
HHH	Adjust wheel bearing preload	-			
L 0	Torque wheel rim clamps			<del>                                     </del>	
_	- Company of the Comp		L		
М	Service and inspect any special equip. or compon	ents			
S	according to manufacturers recommendations  Check and inspect attachments using the PM che	ckshee	t for	-	
C	attachments.				
0	Attach checksheet used: Yes No				
Р	Perform operational check/road test after all PM inspections:				
E R	Check engine controls/performance				
A	Check transmission/drivetrain			-	
-0					
N	Check brakes including parking/emergency			<u> </u>	
С	Check operation of all machine functions				
H	Check all accessory controls				
CK	& equipment for proper operation				
	**** PM Completed ****				
	•				
C	peration test performed: Unit is ready to work				
_					
S	igned:				

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 9 of 15: Snow Blowers - Front

### **Preventive Maintenance Inspection**

SNOW BLOWERS (Truck & Loader Mounted)

Date	Insp. Type
Location (Shop I/D)	
Mechanic	

Equip. No W/O #						
E	Equip. Description					
Н	Hours					
PI	- INSPECTIONS - M C 800 Hours/24 Months	<del> </del>	·			
P	M B 400 Hours/12 Months		7			
P	M A 100 Hours/6 Months —	▼	$\downarrow$	$\downarrow$		
R (R	odes:   ✓ = Okay  A = Adjust  = Replacement/Repair  Items to go on Work Order)  "Walk-around" check for physical damage	Α	В	С		
В О	Check paint & general appearance					
D Y	Check decals, license plate, equipment number					
	Steam clean machine					
	Spot paint unit & replace service instruction decals as required					
C A	Check all gauges & instruments					
B	Check frour meter for operation					
&	Check warning lights, horn, back up alarm					
	Check doors, windows, EROPS					
N	Check windshield wiper & washer					
S	Check lights, turn & hazard lights					
R	Check seat & seatbelt					
T M	Check cab interior/safety items					
E	Check heater & defroster					
N T	Check all controls & switches for operation					
S	Check all mirrors & glass					
	Check battery including hold downs & cables					
E	Check wiring, connections, grounds					
느	Check starter for proper operation					
E	Check starter/alternator mounting					
Т	Check fuse box including spares					
R	Check master switch & neutral start switch					
С	Check starter current drawdown		-			
A L	Test battery: clean & lube posts and cables					
	Check amp draw on glow plugs					
L	<u></u>					

		Α	В	С
	Change engine oil & filter: Check level			
	Change fuel filter(s)			
	Check air restriction reading			
L	Air cleaner: clean & inspect; change as req'd.			
Ũ	Check pre-cleaner			
B E	Check antifreeze condition & freeze point			
&	Check coolant filter, change annually or as req'd.			_
α	Change hydraulic oil & filters			
S E	Filter all hydraulic oil			
R	Check planetary & differential oil levels			
V	Check all fluid levels - top off as needed	1		
C	Lube all fittings per manufacturers specifications			
_	Service & lube all accessory equipment			
	Clean breathers - eng., diff., trans., TC			
	Lube throttle linkage			
	Take oil samples as required			
	Drain air tank of water & oil			
	Check magnetic plugs			
	Change oil in all gear boxes, transmission, differential, drop boxes			
	Change transmission filter (or as required)			
	Change transmission pump screen			
	Drain sediment from fuel tank			-
	Check all mounting brackets/plates	<del>                                     </del>		
	Check all pivot joints/hinge pins for wear	-		
	Check all linkage for operation & wear			
CH	Check all U-bolts & trunion bolts	-		
Α	Check frame for cracks, damage			
S	Tighten all mounts: eng., radiator cowling, etc.			
ı		1		1
S				

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 10 of 15: Snow Blowers - Back

		Α	В	С
	Start engine; Check throttle & accel. controls			
	Check oil pressure reading			
	Check cold weather starting aids			
	Check shutdown system			
Е	Check lines, hoses, connections for leaks			
Ν	Check belts & pulleys			
G	Check radiator for leaks & obstruction			
N	Check cables & linkage for cond. & operation			
Ε	Check exhaust piping & muffler incl. rain cap			
	Check water pump for leaks & bearing play			
	Check air intake system & turbo			
	Check low & high idle			
	Pressure check cooling system			
	Tune engine per manufacturer specifications			
	Check fuel & oil pressure			
	Check engine compression			
	Check turbo for operation & bearing wear			
	Check clutch adjustment			
	Check trans/torque convertor			
D R	Check all linkages for operation and condition			
1	Check drop boxes, transfer cases			
V E	Check płanetaries/axles/differential lockout			
T	Check for worn lines, fittings, hoses			
R A	Check chains/sprockets for wear			
I N	Pressure check transmission			
11	Check all drive couplings			-
	Check trans/TC for internal leakage			
	Check convertor pressure			
	Check all hydraulic controls for proper operation			
Н	Check all hoses, fittings, connections			
Y	Check all hydraulic cylinders for wear/leaks			
R	Check all pumps for operation/leaks			
A U	Check hydraulic tank mounting			
L	Replace hydraulic tank breather		i	
c	Check all hydraulic valves & controls for leaks and excessive wear			
	Check pump pressure			
	Check hydrostatic pump pressure & hydraulic motor output			

		Α	В	С
В	Check brakes for proper operation			
R	Adjust all brakes including parking & emergency			L
A K	Check all brakes for wear & replace as required			
E S	Check all hoses/connections for wear, leaks			
٥	Check lines, master cylinder, etc. for leaks, wear	_		
s	Check all steering components			
Т	Check secondary steering system			
E	Check ball joints, pitman arm, tie rods			
R:	Check pump for leaks, operation			
N G	Check steering relief pressure			
G				
Т	Check all tires for wear & condition			
l R	and proper mounting  Check tire pressure in all tires	-		
Е	Check wheels, lug nuts & studs	_		
S	Ondook intoolog rag read at a state			_
В				
0 1	Check volute for wear. Repair with insert			
W	as required.  Check paddles for wear. Replace as required.			
E	Check reel flights for wear. Replace as required.			
Α	Check shoes for wear	-		
SS	Check blower head for stress cracks			<u> </u>
Ε	Check right angle gear box for wear			
M B	Check all U-joints			<u> </u>
L Y	Check chains & sprockets for wear	-		
Ô		<u> </u>		
O P	Perform operational check/road all PM inspections:	ı tes	ταπ	er
R	Check engine controls/performance			
A T	Check transmission/drivetrain			
0	Check brakes including parking/emergency			
N	Check operation of all machine functions			
СН				
E	Check all accessory controls			
K	& equipment for proper operation			
	Comments:			
	-			
_	**** PM Completed ****			
	perational test performed: Unit is ready to work.			
Si	gned:			

# ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 11 of 15: Attachments/Sanders & Trailers

	Preventive Maintenance Inspection			DateInsp. Type							
	Equip. No W/O #				Locat	ion (Shop I/D)			-		
	Equip. Description										
	Hours										
	*** Attachments/Sanders ***			*** Trailers ***							
Ы	M C 800 Hours/24 Months			<del></del>		A = 6 Months B = None C = Annual	Α	В	С		
PM B 400 Hours/12 Months				Check for physical damage & general condition							
Р	M A 100 Hours/6 Months —————	_	$\downarrow$	$\downarrow$	В	Check for license plate & equipment number					
C	odes: ✓ = Okay A = Adjust				0	Check for mud flaps, tie downs					
r (F	= Replacement/Repair I Items to go on Work Order)	Α	В	С	D	Check for loose bolts & fittings			ļ .		
	*** Attachments/Sanders ***				/	Check for wear/cracks					
В	Check for physical damage & condition				C H	Check condition of decking/ramps					
0 D Y	Check for license plate & equipment number				AS	Check condition of kingpin					
	Check for loose bolts & fittings				S	Check landing gear/jack stand					
/ C	Check for wear/cracks				l S	Check hitch pintle/safety chains					
HASSI	Check all lines, hoses, fittings					Check all locking/pin connections					
	Check all mounting brackets, plates	all mounting brackets, plates				Check all lights/reflectors					
	Check all hydraulic cylinders					Check hydraulic cylinders					
S	Check all locking/pin connections					Check lines, hoses, wiring					
	Check condition of wear edges/points					Observatoriles for looks including					
	Check all lights/reflectors					Check tank trailers for leaks, including valves, piping, pumps, spray bars					
	Check all electrical connections						Р	Adjust brakes; check condition			
	Check tire condition/pressure				B R	Drain air tanks					
_	Lube & service per manufacturers chart				A   K	Check airlines including gladhands					
L	Lube & service accessory equipment				E	Check brake pads, shoes, drums					
В	Check all fluid levels				0	Repack wheel bearings					
_	Repack wheel bearings					Check tires for condition & wear			ļ		
	Steam clean (flush sander box)					Check tire inflation					
_	Change gear box oil/check bearings					Lube all fittings per chart					
S	Oil conveyor chain				L	Lube & service all accessory equipment					
N D	Adjust conveyor chain				B	according to chart			ļ <u>-</u>		
E	Check & lube all bearings				-				ļ		
R	Check sander box sheet metal										
ı	Jnit is services and ready to work.	****	РМ С	omple	ted **** Signed				<u>-</u>		

# ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 12 of 15: Miscellaneous Support Equipment - Front

### **Preventative Maintenance Inspection**

Misc. Support Equipment - Rollers, sweepers, A/C dist. tar pots, hydraulic booms/cranes/liftgates, auger drills, brush cutters, paint striper, chip spreader, portapatcher, garbage packer, steam generator & boiler, air compressor, welder & other misc. equipment.

Note: Make sure Support Equipment Supplement sheet is attached.

Date	Insp. Type
Shop I/D	
Mechanic	

Ec	uip. No W/O #			_			
Ec	Equip. Description						
Но	ours						
	- INSPECTIONS -						
PN	/I C Annual						
PN	// B None		٦				
PN	A A 100 Hours	→	lack	▼			
	des:   ✓ = Okay  A = Adjust						
R:	= Replacement/Repair Items to go on Work Order)	Α	В	С			
(17	"Walk-around" check for physical damage						
В О	Check paint & general appearance						
D	Check decals, license plate, equipment number						
1	Check mud flaps, winterfront, roller wiper pads						
	Steam clean machine						
С	Check all gauges & instruments						
B	Check hour meter for operation						
&	Check warning lights, horn, back up alarm						
	Check doors, windows, EROPS						
N	Check windshield wiper & washer	-					
S	Check lights, turn & hazard lights						
R	Check seat & seatbelt						
T	Check cab interior/safety items						
E	Check heater & defroster						
N	Check all controls & switches for operation						
S	Check all mirrors & glass						
	Check neutral start switch						
E	Check wiring, connections, grounds						
L	Check battery including hold downs & cables						
E	Check fuse box including spares						
T	Check master switch if required						
R	Check starter for proper operation						
C	Check starter/alternator mounting						
A L	Check amp draw on glow plugs						
	Clean & lube battery posts & cables						
	Check starter current drawdown						

		Α	В	С
	Change engine oil & filter: Check level			
ŀ	Change fuel filter(s)			
Ì	Check air restriction reading			
L	Air cleaner: clean & inspect; change as req'd.			
ū	Check pre-cleaner			
B   E	Check antifreeze condition & freeze point			-
	Check coolant filter, change annually or as req'd.			
&	Change hydraulic oil & filters			
s	Check planetary & differential oil levels			
R	Drain air tank of water & oil			
V	Check all fluid levels - top off as needed			
CE	Lube all fittings			
-	Service & lube all accessory equipment			
i	Clean breathers - eng., diff., trans.			
	Lube throttle linkage			
	Check magnetic plugs			
	Take oil samples as required			
	Change oil in all gear boxes, transmission, planetaries and hydraulic system			
	Change transmission filter (or as required)			
	Clean transmission pump screen			
	Pack wheel & roller bearings as needed			
	Drain sediment from fuel tank			
	Check all mounting brackets/plates			
	Check all pivot joints/hinge pins for wear			
	Check all linkage for operation & wear	1		
Н	Check all U-bolts & trunion bolts			
A	Check EROPS mounting			
S S	Check frame locking pin			
I S	Check frame for cracks, damage			
3	Check suspension			
	Check mounted body for condition & operation			

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 13 of 15: Miscellaneous Support Equipment - Middle

### MISC. SUPPORT EQUIPMENT SUPPLEMENTAL SHEET

		Α	В	С
W	Measure voltage at plug & leads			
E	Check brushes			
D	Stone commutator & exciter			
E R				
R	Check water tank & spray system			
0 L	Check roller drum for leaks & condition	_		
L	Check vibratory system for operation			
R				
	Clean hopper area			
S	Check hopper operation			
E	Check water tank & spray bar system			
Р	Check air conditioning			
E R	Check broom operation & condition			
	Check conveyor belt tracking & condition			
S	Disassemble for boiler inspection			
Ε	Clean fire box			
A M	Flush coils with acid			
G	Hydrotest tubes for leakage			
E	Brush fire tubes			
/	Clean & flush water side			
ВО	Check burner & igniter assembly for operation			-
1	Check condition & RPM of fan			
E	Check condition of hose & hose reel			
R	Lube hose swivel			
D I	Clean & adjust flue & burner assembly			
S	Check dist. engine/clutch operation			
&	Check spray bar assembly including nozzles			
Р	Check controls, valves & piping			
A T	Check for fuel leaks			
C H	Check drum drive			
E R				
		1		
OH.	Check roller bearings			
P	Check belts for alignment & wear			
S	Check proved relies begings appropriate & chains			
R	Check spread roller bearings, sprockets & chains	-		
A		<u> </u>		-
E		-		
			<u>L</u>	

	Equipmone (40)			
		Α	В	С
CO	Check pressure gauges			
M	Check hoses & fittings			
R	Check safety valve			
S	Change compressor filter			
O R	Change hydraulic oil			
В	Check boom & pedestal for cracks			
0	Check bed mounting bolts			
M S	Check controls for proper operation			
/ C	Check cables, sheaves, hooks			
R A	Check hydraulic cylinders for condition, leaks			
N E				
A U	Check & adjust steering clutches			
G	Check track adjustment			
E R	Check track cleats for cracks & missing bolts			
D	Check drill mast			
R	Check winch operation			
Ė	Check cables & hooks			
В	Check cutter boom for cracks & damage			
R U	Check & adjust cutter head bearing preload			
s	Check return pressure on hydraulic motor			
Н	Check hydraulic operating pressures			
C	Check air conditioner if equipped			
U	Check all safety guards/devices			
T				
R	* For Roanoake, use grader PMI for prime move	er		
P A	Check air conditioner			
N	Check compressor assembly			
T	Check paint application assembly			
S				
R I				
P E				
Ř				
		1	1	1

## ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 14 of 15: Miscellaneous Support Equipment - Back

		Α	В	С
	Start engine; Check throttle & accel. controls			
	Check oil pressure reading			
	Check cold weather starting aids			
	Check shutdown system			
E	Check lines, hoses, connections for leaks			
N	Check belts & pulleys			
G	Check radiator for leaks & obstruction			
N	Check cables & linkage for cond. & operation			
E	Check exhaust piping & muffler incl. rain cap			
	Check water pump for leaks & bearing play			
	Check air intake system & turbo			
	Check low & high idle			
	Pressure check cooling system			
	Tune engine; set valves & injectors			
	Check fuel pressure			
	Check turbo for operation & bearing wear			
	Torque turbo/engine mounting bolts			
	Check clutch/steering brake adjustment			
	Check trans/torque convertor/PTO		-	
D R	Check all linkages for operation and condition			
i i	Check drop boxes, transfer cases			
V E	Check planetaries/axles/differential lockout		-	
T R	Check clutch pressure where applicable			
A	Check all drive couplings/mid bearings			-
I N	Check trans/TC for internal leakage			
1	Check trans cooler pressure			
	Check convertor pressure			
	Check transmission lube pressure			
	Torque transmission/TC mounting bolts			
	Check all hydraulic controls for proper operation			
Н	Check all hoses, fittings, connections			
Υ	Check all hydraulic cylinders for wear/leaks			
D R	Check all pumps for operation/leaks			
A U	Check hydraulic tank mounting			
L	Replace hydraulic tank breather			
C				

	Obselv hydrog for manor anarolian	Α	В	С		
	Check brakes for proper operation					
В	Adjust parking/emergency brake as required					
R A	Bleed air from system					
K	Check linings/drums/discs					
S S	Check for leaks - whi. cyl., caliper, master cyl.		ļ			
	Check all hoses/connections for wear, leaks					
	Check accumulator precharge pressure			L		
Ş T	Check all steering components					
E	Check ball joints, pitman arm, tie rods					
R	Check pump for leaks, operation					
N	Check steering relief pressure					
G						
	Check all tires for wear & condition					
	Check tire pressure in all tires					
R	Check wheels, lug nuts & studs			<u> </u>		
S						
M I S C	Service and inspect any special equip. or comport according to manufacturers recommendations  Use miscellaneous Support Equipment Supplements sheet to cover inspections for specific types of equipments.	ent uipmen				
O P E	Perform operational check/roa all PM inspections:	d tes	t aft	er		
R	Check engine controls/performance					
A T	Check transmission/drivetrain					
0	Check brakes including parking/emergency					
Z C	Check operation of all machine functions (Raise, lower, etc.)					
H	Check all accessory controls					
С	& equipment for proper operation  Check operation of all machine functions					
K						
	Comments:					
<u> </u>						
**** PM Completed ****						
(	Operational test performed: Unit is ready to work.					
	Signed:					

### ATTACHMENT B - PREVENTIVE MAINTENANCE & INSPECTION CHECK SHEETS Page 15 of 15: Annual Dry Inspection

Equip. No	WO #	Date	
Vehicle Description	H	ours or Miles	
Pass	Fail		
Inspection Item			Finding
Review customer's records	for documentation of F	PMs and repairs	
Check VIN and license plate	e numbers against EM	S master record	
When required check for cur	rrent IM inspection		
Check fluid levels and condi	tion		
Inspect at least one wheel for	or brake condition		
Inspect tire condition			
Inspect underside of vehicle	for fluid leaks; damag	e; and condition	
of exhaust, steering,	fuel, and brake system	าร	
Inspect exterior for damage			
Check lights for operation			
Check vehicle for required s	tate decals		
Check vehicle for emergenc	y equipment		
Inspect interior and exterior	for cleanliness		
Conduct short road test of ve	ehicle		
Take picture of vehicle for S	EF file		
Inspect	ed by		

### DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE EQUIPMENT FLEET FAUGUSTATE PROPERTY OF THE PROPERTY

Asset No.  blivery Order PR No. Bid No  attachment(s)  redit Card Ordering Information:  STATE CREDIT CARD	Class Manufacturer Model Description		Mdl Year  Warranty Info			Hour Meter Reading Odometer Reading Color Replaced/Add No.	
PR No. Bid No  Itachment(s)  redit Card Ordering Information: STATE CREDIT CARD	Model Description		Warranty Info				
Bid No  Attachment(s)  redit Card Ordering Information:  STATE CREDIT CARD  Date Ordered	Description		Warranty Info			Replaced/Add No.	
redit Card Ordering Information: STATE CREDIT CARD	·		Warranty Info			•	
redit Card Ordering Information: STATE CREDIT CARD Date Ordered			Warranty Info			Location	
STATE CREDIT CARD IIII F			Warranty Information:			Warranty Start Date	
STATE CREDIT CARD IIII F						Date Vendor Notified	
STATE CREDIT CARD IIII F						Initials	
Date Ordered				VENI	OR		
	FUELMAN CREE	DIT CARD III OT	HER				
DOWED TO ALL	E	ate Received	**********				
POWER TRAIN		E	LECTRICAL			HYDRAULIC SYSTEM	
Ingine Make		Alternator No.				Pumps & Motors	
Model						Hoses, Lines & Valves	
Serial No.	- 1					Hoists	
Main Transmission Assy.		Headlights	RF	L	-	PARTS & SERVICE MANUAL	
/lake		Parking Lights	RF	L	-	Parts	
Model	1	. withing cigities	BB	L	_	Service	
Serial No.			HH	L	4	Gelvice	
auxiliary Transmission		Clearance Lights	CAL		T	BODY-BOXES	
/lake		2000-004P2990F103 <b>*</b> 303*0	RF	L	+	Туре	
leboh			RR	L	-	Type	
Serial No.			IAA		1		
Rear Axle Assy - Single		Marker Lights	RF	L	-	WHEELS & HUBS	
Tande	1	Walker Lights	RA	L	-		
fake .	1	Stop Lights	B	L		1	
Model .	13	Tall Lights	B	L	+	Wheel & Tire Sizes - Rear	
erial No.		run Eigitto				Wilder & Tile Oizes - Near	
BRAKE SYSTEM		Turn Signals	BF	L		1	
loses, Lines, Fittings,		Turn Orginalo	BB	L		Wheel & Tire Sizes - Spare	
anks, Pump		3 Light Cluster	F	F	-		
rake Assembly SUSPENSION	200	4 Way Flasher				1	
ront Spring Capacity		+ way riasilei	RF	L			
Skinia cahaoni		Back-Up Light	RR	L	1	FRONT AXLE & STEERING	
lear Spring Capacity		License Light				Front Axle Assembly	
, ,		Ending Figur	-		-	Make	
andem Suspension Assembly	E <sub>k</sub>	Reflectors	RF	L		Model	
lake		, John Colors	RR	L		Steering Assembly	
lodel	a de la companya de l	Dome Light	RR	L	3	Make	
	and the same	Wiring (General)				Model	
		Training (Colletai)					
	1	حديد منظم والمعالم			_	<u>i</u>	
		ITEMS MISSING	- DAMAGES - R	MARK	<u>5</u>		
				-			
Care condition of each rem checked.						odel name and number written in appropriate block. The key dis	
- Operating Property, Oil levels and lubrication	n checked X - Not in wo			with vehic	8		
gnature of Inspecting Employee		Dat	te				
higrara or mobacting Embloxee	•					[ <del></del> ]	
gnature of Regional Equipment		Dat	te			TEM DOES NOT MEET SPEC	